

SEQUENCE LISTING

SEQ ID No: 1

LENGTH: 330

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

ORIGINAL SOURCE:

ORGANISM: Sulfolobus acidocaldarius

STRAIN: ATCC 33909

FEATURE:

FEATURE KEY: Asp-rich domain

LOCATION: 82-86

Met Ser Tyr Phe Asp Asn Tyr Phe Asn Glu Ile Val Asn Ser Val Asn
5 10 15
Asp Ile Ile Lys Ser Tyr Ile Ser Gly Asp Val Pro Lys Leu Tyr Glu
20 25 30
Ala Ser Tyr His Leu Phe Thr Ser Gly Gly Lys Arg Leu Arg Pro Leu
35 40 45
Ile Leu Thr Ile Ser Ser Asp Leu Phe Gly Gly Gln Arg Glu Arg Ala
50 55 60
Tyr Tyr Ala Gly Ala Ala Ile Glu Val Leu His Thr Phe Thr Leu Val
65 70 75 80
His Asp Asp Ile Met Asp Gln Asp Asn Ile Arg Arg Gly Leu Pro Thr
85 90 95
Val His Val Lys Tyr Gly Leu Pro Leu Ala Ile Leu Ala Gly Asp Leu
100 105 110
Leu His Ala Lys Ala Phe Gln Leu Leu Thr Gln Ala Leu Arg Gly Leu
115 120 125
Pro Ser Glu Thr Ile Ile Lys Ala Phe Asp Ile Phe Thr Arg Ser Ile
130 135 140
Ile Ile Ile Ser Glu Gly Gln Ala Val Asp Met Glu Phe Glu Asp Arg
145 150 155 160
Ile Asp Ile Lys Glu Gln Glu Tyr Leu Asp Met Ile Ser Arg Lys Thr
165 170 175
Ala Ala Leu Phe Ser Ala Ser Ser Ser Ile Gly Ala Leu Ile Ala Gly
180 185 190

Ala Asn Asp Asn Asp Val Arg Leu Met Ser Asp Phe Gly Thr Asn Leu
 195 200 205
 Gly Ile Ala Phe Gln Ile Val Asp Asp Ile Leu Gly Leu Thr Ala Asp
 210 215 220
 Glu Lys Glu Leu Gly Lys Pro Val Phe Ser Asp Ile Arg Glu Gly Lys
 225 230 235 240
 Lys Thr Ile Leu Val Ile Lys Thr Leu Glu Leu Cys Lys Glu Asp Glu
 245 250 255
 Lys Lys Ile Val Leu Lys Ala Leu Gly Asn Lys Ser Ala Ser Lys Glu
 260 265 270
 Glu Leu Met Ser Ser Ala Asp Ile Ile Lys Lys Tyr Ser Leu Asp Tyr
 275 280 285
 Ala Tyr Asn Leu Ala Glu Lys Tyr Tyr Lys Asn Ala Ile Asp Ser Leu
 290 295 300
 Asn Gln Val Ser Ser Lys Ser Asp Ile Pro Gly Lys Ala Leu Lys Tyr
 305 310 315 320
 Leu Ala Glu Phe Thr Ile Arg Arg Arg Lys
 325 330

SEQ ID No: 2

LENGTH: 993

TYPE: nucleic acid

STRANDEDNESS: double

TOPOLOGY: linear

MOLECULE TYPE: genomic DNA

ORIGINAL SOURCE:

ORGANISM: Sulfolobus acidocaldarius

STRAIN: ATCC 33909

FEATURE: Feature key: Asp-rich domain coding

LOCATION: 246-258

ATGAGTTACT	TTGACAAC	TTTAAATGAG	ATTGTTAATT	CTGTAAACGA	CATTATTAAG	60
AGCTATATAT	CTGGAGATGT	TCCTAAAC	TATGAAGCCT	CATATCATTT	GTTTACATCT	120
GGAGGTAAGA	GGTTAAGACC	ATTAATCTTA	ACTATATCAT	CAGATTTATT	CGGAGGACAG	180
AGAGAAAGAG	CTTATTATGC	AGGTGCAGCT	ATTGAAGTTC	TTCATACTTT	TACGCTTG	240
CATGATGATA	TTATGGATCA	AGATAATATC	AGAAGAGGGT	TACCCACAGT	CCACGTGAAA	300
TACGGCTTAC	CCTTAGCAAT	ATTAGCTGGG	GATTTACTAC	ATGCAAAGGC	TTTTCAGCTC	360
TTAACCCAGG	CTCTTAGAGG	TTTGCCAAGT	GAAACCATAA	TTAAGGCTTT	CGATATTTTC	420
ACTCGTTCAA	TAATAATTAT	ATCCGAAGGA	CAGGCAGTAG	ATATGGAATT	TGAGGACAGA	480

ATTGATATAA AGGAGCAGGA ATACCTTGAC ATGATCTCAC GTAAGACAGC TGCATTATTC 540
TCGGCATCCT CAAGTATAGG CGCACTTATT GCTGGTGCTA ATGATAATGA TGTAAGACTG 600
ATGTCTGATT TCGGTACGAA TCTAGGTATT GCATTTTCAGA TTGTTGACGA TATCTTAGGT 660
CTAACAGCAG ACGAAAAGGA ACTTGGAAG CCTGTTTTTA GTGATATTAG GGAGGGTAAA 720
AAGACTATAC TTGTAATAAA AACACTGGAG CTTTGTAAG AGGACGAGAA GAAGATTGTC 780
CTAAAGGCGT TAGGTAATAA GTCAGCCTCA AAAGAAGAAT TAATGAGCTC AGCAGATATA 840
ATTAAGAAAT ACTCTTTAGA TTATGCATAC AATTTAGCAG AGAAATATTA TAAAAATGCT 900
ATAGACTCTT TAAATCAAGT CTCCTCTAAG AGTGATATAC CTGGAAAGGC TTTAAAATAT 960
CTAGCTGAAT TTACGATAAG AAGGAGAAAA TAA

SEQ ID No: 3

LENGTH: 37

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: synthetic DNA

SEQUENCE DESCRIPTION:

CATACTTTTT TCCTTGTGGC TGATGATATC ATGGATC

37

SEQ ID No: 4

LENGTH: 37

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: synthetic DNA

SEQUENCE DESCRIPTION:

CATACTTTTT TCCTTGTGCT TGATGATATC ATGGATC

37

SEQ ID No: 5

LENGTH: 37

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: synthetic DNA

SEQUENCE DESCRIPTION:

CATACTTATT TCCTTGTGCT TGATGATATC ATGGATC

37

SEQ ID No: 6

LENGTH: 37

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: synthetic DNA

SEQUENCE DESCRIPTION:

CATACTTATT TCCTTGTGGC TGATGATATC ATGGATC

37

SEQ ID No: 7

LENGTH: 36

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: synthetic DNA

SEQUENCE DESCRIPTION:

GTTCTTCATA CTTATTCGCT TATTCATGAT AGTATT

36

SEQ ID No: 8

LENGTH: 33

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: synthetic DNA

SEQUENCE DESCRIPTION:

ATTTCATGATG ATCTTCCATC GATGGATCAA GAT

33

SEQ ID No: 9

LENGTH: 27

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE:

SEQUENCE DESCRIPTION:

TTTTTCCTTG TGGCTGATGA TATCATG

27

SEQ ID No: 10

LENGTH: 27

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE:

SEQUENCE DESCRIPTION:

TTTTTCCTTG TGCTTGATGA TATCATG

27

SEQ ID No: 11

LENGTH: 27

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE:

SEQUENCE DESCRIPTION:

TATTTTCCTTG TGCTTGATGA TATCATG

27

SEQ ID No: 12

LENGTH: 27

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE:

SEQUENCE DESCRIPTION:

TATTTTCCTTG TGGCTGATGA TATCATG

27

SEQ ID No: 13

LENGTH: 33

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE:

SEQUENCE DESCRIPTION:

TATTCGCTTA TTCATGATGA TCTTCCATCG ATG

33

SEQ ID No: 14

LENGTH: 27

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE:

SEQUENCE DESCRIPTION:

TTTACGCTTG TGCATGATGA TATTATG

27